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ABSTRACT OF THE DISCLOSURE

Disclosed is an electron source forming substrate provided with an insulating material layer provided on the surface of a substrate, at which surface an

5 electron-emitting device is disposed, wherein the insulating material layer has a plurality of partially exposed metal oxide particles on its surface. Also disclosed are an electron source including a substrate and an electron-emitting device arranged on the

10 substrate, wherein the substrate is an electron source forming substrate as described above, and an image display apparatus including an envelope, an electron-emitting device arranged in the envelope, and an image display member adapted to display images through

15 application of electrons from the electron-emitting device, wherein a substrate on which the electron-emitting device is arranged is an electron source forming substrate as described above.